

Polymorphous forms of rosiglitazone maleate

Abstract

Three new polymorphous crystalline forms of rosiglitazone maleate, termed respectively form I, II and III and the methods for selectively obtaining each form are described and characterized. Rosiglitazone maleate may be obtained in the form of the single polymorph I by blending an approximately equimolar mixture of rosiglitazone base and maleic acid in a series of solvents and mixtures thereof which comprises isopropanol, acetone, ethyl acetate, isopropyl acetate, THF, followed by cooling of the mixture to ambient temperature; the form II may on the other hand be obtained by means of treatment of the approximately equimolar mixture of rosiglitazone base and maleic acid in water under reflux, followed by cooling of the mixture to ambient temperature; the polymorph III may be obtained by treating a mixture of rosiglitazone base with a double molar quantity of maleic acid in ethanolic solvents.